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eries Leading to the Rediscovery of Mendel's Law," (2) "Mendel's Law of Heredity and the Mendelian Ratios," (3) "Evolution by Loss or Gain of Unit Characters or by Variations in their Potency," (4) "Mendelian Unit Characters and Selection," (5) "Blending Inheritance and its Relation to Mendelian Inheritance," (6) "Reciprocal Crosses and Fixed Hybrids; Sex-limited Inheritance," (7) "Effects of Inbreeding and Cross-breeding," (8) "Sex Determination and Sex Control." On Mondays and Thursdays at 8 P.M., beginning November 28.

Eight lectures by Sir John Murray, K.C.B., F.R.S., LL.D., etc., of the *Challenger* Expedition, on "The Ocean." On Mondays and Thursdays at 8 P.M., beginning Monday, February 6.

Dr. Svante Arrhenius, of Stockholm, Sweden, will give a course on "Cosmology." Detailed announcements concerning this course will be made later.

THE BIOLOGICAL BUILDING OF THE UNIVERSITY OF WISCONSIN

WORK on the new biological building has begun at Wisconsin University. The structure will occupy a space 42 by 240 feet square, will be built of Madison sandstone and will follow the general style of architecture of University Hall. It is to be four stories high with a basement and sub-basement.

A room for the study of hibernating animals is to be the most novel feature of the new structure. Little work on the hibernation of animals has been done by zoologists up to the present time and many interesting findings are anticipated when work begins in the new building. Conditions of temperature, moisture, light, etc., will be kept at a uniform point to insure the best possible environment for the animals while hibernating.

Both a vivarium and an aquarium will be installed in the basement where many land and water animals will be kept for purposes of instruction, study and research. In the six greenhouses, which are to be built adjoining the main building on the south, a number of very rare tropical plants will be kept. An ef-

fort to secure data concerning their peculiar characteristics is the object of their culture.

The greater part of the main floor will be taken up by the museum. Collections of both botanical and zoological specimens will be installed there. At the rear of the museum will be the entrance to the lecture auditorium. This will be arranged in amphitheater form around a central raised platform, and will seat 500 students. A small room on the main floor will be devoted to the study of the effect of different lights on plants. A special study of the effect of violet rays will be made.

SCIENTIFIC NOTES AND NEWS

THE National Academy of Sciences will hold a scientific session in St. Louis, beginning Tuesday, November 8, 1910, at 10.30 A.M. The meeting will be held in the graduate lecture room, at the Missouri Botanical Garden.

DR. ARTHUR MICHAEL, who has had his private research laboratory at Tufts College for the past twenty-five years, has removed the laboratory and scientific library to Newton.

THE "prix de Léonide Spendiarow" was established by a Russian gentleman of distinction who deposited with the International Geological Congress the sum of four thousand rubles, the interest to be awarded at the triennial sessions of the congress "for the best work on geological questions designated by the congress." The award is made by an international committee and was first given to Karpinsky, director of the Geological Survey of Russia; next to Professor Brögger, of Christiania; then to Tschernyschew, the successor of Karpinsky. At the recent Stockholm meeting of the congress the prize was given to John M. Clarke, New York state geologist, for his work on the Devonian of New York and eastern North America.

DR. FRANK H. BIGELOW, recently of the U. S. Weather Bureau, has accepted an appointment under the Argentine government, and his address will be *Oficina Meteorologica Argentina, Buenos Aires*, beginning with December, 1910. He was elected member of the

International Commission on Terrestrial Magnetism and Atmospheric Electricity and member of the International Commission on Radiation in order to represent Argentina. He has been a member of the International Cloud Commission and the International Solar Commission since their organizations.

DR. HERMAN A. SPOEHR, assistant in chemistry at the University of Chicago, has been appointed a member of the staff of the department of botanical research of the Carnegie Institution of Washington. Dr. Spoehr is investigating certain problems in plant physiology which lend themselves to the application of chemical methods.

DR. F. GOWLAND HOPKINS, F.R.S., late natural science tutor at Emmanuel College, Cambridge, and formerly demonstrator in physiology at Guy's Hospital, has been admitted into a fellowship at Trinity College upon receiving the appointment of prælector in bio-chemistry.

MR. R. B. GREIG, of the North of Scotland College of Agriculture, has been appointed a member of the Australian Agricultural Commission.

AFTER several months spent among the Crow Indians of Montana, Dr. Robert H. Lowie, of the American Museum of Natural History, has been at work among the Hidatsa of the Fort Berthold Reservation, North Dakota.

GEORGE F. KAY, professor of petrology and economic geology, University of Iowa, spent the months of July and August examining coal claims in the Katalla field, Alaska. He was in the employ of the Forest Service of the Department of Agriculture.

DR. ARTHUR EDWIN HAYNES, professor of engineering mathematics at the University of Minnesota, has been granted leave of absence for one year. He has taught consecutively for thirty-five years, the past seventeen at Minnesota University.

THE council of the Institution of Civil Engineers has made the following awards for papers published in the proceedings: A Telford gold medal to Major W. W. Harts, U. S.

Army (Nashville, Tenn.); a Watt gold medal to Mr. A. Trewby (London); a Crampton prize to Professor A. H. Gibson and Mr. A. Ryan (Manchester), and Telford premiums to Messrs. W. R. Baldwin-Wiseman (Southampton), O. W. Griffith (London), Dr. W. E. Lilley (Dublin), W. Corin (Sydney), J. A. Saner (Northwich), and F. O. Blackwell (New York); the Indian premium for 1910 to Mr. C. W. Lloyd-Jones (Secunderabad).

PROFESSOR JAMES R. ANGELL, of the University of Chicago, will give three lectures at the Union College in January and February. They will be known as the Ichabod Spencer lectureship series, and are supported by the endowment of \$75,000 for the department of philosophy which was recently made by Mrs. Catherine Leavitt, of Washington, in memory of her father, Ichabod Spencer.

DR. EUGENE OBERHUMMER, professor of geography in the University of Vienna, will give a course of lectures next month at the Johns Hopkins University.

THE Harveian oration before the Royal College of Physicians of London was delivered by Dr. H. B. Donkin on October 18.

THE monument to Johann Mendel, who died in Braun in 1884, was unveiled there on October 1 in the presence of a number of representatives of foreign institutions.

DR. ERNST VON LEYDEN, for more than forty years professor in the University of Berlin and eminent for his contributions to pathology, has died at the age of seventy-eight years.

DR. JAKOB LUEROETH, professor of mathematics at Freiburg, has died at the age of sixty-six years.

AN official announcement is made by the State Department of information received from the Berlin embassy concerning the recent establishment of the "Amerika Institut" in Berlin. Professor Hugo Münsterberg, of Harvard University, exchange professor at Berlin for the current academic year, is the first director of the institution, which is founded and supported by American and German contributors with the object of furthering

the "cultured relations" between the United States and the German empire.

THE second International Conference for the Study of Cancer was opened by M. Doumergue, minister of public instruction at Paris, in the Great Hall of the Medical Faculty at the Sorbonne on October 1.

THE *British Medical Journal* states that the evening meetings of the Eugenics Education Society will be held at Denison House on October 19, when Mr. J. H. Koeppern will read a paper on "The Eugenic Value of Maternity Insurance"; and on November 16, when Dr. F. W. Mott, F.R.S., will read a paper on "Heredity and Insanity" (giving the results of a recent inquiry). On December 14 there will be a discussion on "The Biological Factor in Infant Mortality." Afternoon meetings will be held in the Caxton Hall, Westminster, on November 1, when a paper on "Woman's Progress in Relation to Eugenics" will be read by Dr. Murray Leslie; and on December 1, when Mr. Edgar Schuster will read a paper entitled "Methods and Results of the Galton Research Laboratory."

DR. E. C. PICKERING, director of the Harvard College Observatory, announces that a new star, whose approximate position is R. A. $16^h 31^m 4^s$ Dec. — $52^\circ 10'.6$ (1875), was discovered by Mrs. Fleming, in the Constellation Va, on October 13, 1910. It appears on 21 photographs taken at Arequipa with the 8-inch Bache and 1-inch Cooke telescopes, between April 4, 1910, and August 3, 1910. The magnitude has been estimated as varying from 6.0 to 10.0 between these dates. The spectrum is quite faint but shows, on three plates, the bright lines, 5007, $H\beta$, 4670, $H\gamma$, $H\delta$, $H\epsilon$ and $H\zeta$, one of the plates showing also the bright line $H\eta$. Apparently this object had passed into a nebulous condition before its spectrum was photographed. The star does not appear on 44 photographs, taken between August 20, 1889, and March 19, 1910, although almost all of them show stars fainter than the twelfth magnitude, and two plates show stars as faint as the fifteenth magnitude. Of the sixteen new stars found during the last

twenty-five years thirteen have been found at this observatory, one by Miss A. J. Cannon, two by Miss H. S. Leavitt from photographic charts and ten by Mrs. Fleming from the Draper Memorial photographs.

SINCE March of the present year, Mr. Roy C. Andrews, of the American Museum of Natural History, has been studying and collecting the Cetaceans taken at the whaling stations on the west coast of Japan. He has secured skeletons of whales according to the following list: finback more than 69 feet long, humpback 47 feet long, sperm 60 feet long, sulphurbottom 78 feet long and two kill whales 22 and 28 feet, respectively. In addition, he has procured a number of skeletons of several species of porpoises. These skeletons, four of which have already made the long journey to the museum, have been presented to the museum by the Oriental Whaling Company of Japan.

AMONG the recent gifts to the American Museum of Natural History are the Lender's collection of costumes of the Plains Indians, presented by Mr. J. Pierpont Morgan; a valuable collection of Navajo blankets, presented by Mrs. Russell Sage, and two specimens of the African elephant as well as two of the square-mouthed or white rhinoceros, collected and presented by Mr. Roosevelt.

THE "Entomology" by Professor J. W. Folsom, of the University of Illinois, has appeared in a Japanese translation, made by Messrs. Miyake and Uchida, of Tokyo.

AN arrangement has been made with the Cambridge University Press by which that institution will take charge of the publications of the University of Chicago Press in England. The Cambridge Press thus becomes agent for these books and journals in all parts of the British Empire outside the western hemisphere. This arrangement applies to all future publications and, subject to certain existing arrangements, also to books already published.

THE General Electric Company of Schenectady, New York, has presented the University of Illinois with a recording steam meter, a de-

vice which has been in successful use as a means of determining the quantity of steam passing any pipe to which it may be attached. The gift was transmitted on behalf of the General Electric Company by its Sales Manager, Mr. F. G. Vaughen, to Professor Ernst J. Berg, in charge of the department of electrical engineering. This is the second significant gift that the General Electric Company has made the University of Illinois during the past year, the first consisting of a 100-kilowatt Curtis steam turbo-generator which now constitutes a part of the equipment of the department of electrical engineering.

AN association for the promotion of astronomy has been formed in India. It is to be known as the Astronomical Society of India, and has its headquarters at Calcutta.

UNIVERSITY AND EDUCATIONAL NEWS

It is announced that Mr. John D. Rockefeller has recently offered to give to Western Reserve University for further endowment of its medical department, the sum of \$250,000 provided \$750,000 additional is raised. Toward this \$1,000,000 fund, as was announced in May last, Mr. H. M. Hanna, of Cleveland, has given \$250,000. The trustees of the university have indicated their intention to undertake to secure the \$500,000 needed to complete the fund.

YALE UNIVERSITY is to receive the residue of the estate of Samuel H. Lyman on the death of the testator's brother, Joseph Lyman, with the exception of \$25,000, which goes to the Children's Aid Society. A trust fund, to be known as the "Joseph Lyman Fund for the Aid of Deserving Students," is to be established. The value of the bequest is not known, but the estate is said to be large.

THE construction of the new zoological laboratory of the University of Pennsylvania was begun on September 16. It will be completely finished and furnished by next summer. The total cost will probably be between \$250,000 and \$300,000. As planned, it will be the largest building yet constructed for zoology.

THE Drapers' Company, which has already done so much for the Agricultural School of Cambridge University, has offered a sum of £22,000 towards the cost of erecting a new physiological laboratory on the Downing site, and a further sum of £1,000 for fittings. The proposed new laboratory for psychophysics, the cost of which has been collected by Dr. C. S. Myers, will, it is hoped, be erected in the close neighborhood of the proposed building for physiology.

THE new chemical and physiological laboratories for the University of Bristol are now complete. The formal opening will take place on November 15 by Lord Winterstoke, chancellor of the university.

SYLVESTER K. LOY, Ph.D. (Hopkins), is acting professor of chemistry at Symons College, Boston, Mass.

THOMAS A. LEWIS, Ph.D. (Hopkins), has been appointed professor of physiology at Richmond College, Va.

THE executive committee of the board of trustees of Cornell University has made the following appointments: Seymour S. Garrett, '04, and John A. Wheeler, '03, assistant professors of mechanics of engineering; F. W. Buck, '09, C. E. Townsend, '07, and C. W. Davis, '07, instructors in machine design; J. F. Stephens, instructor in electrical engineering; D. S. Cole, instructor in electrical engineering; H. McClure, instructor in mechanics of engineering; J. F. Brauner, Jr., '05, instructor in civil engineering; A. H. Forman, instructor in physics; R. D. Anthony, instructor in pomology; R. R. Birch, instructor in experimental pathology.

APPOINTMENTS at the University of Michigan are: Henry Allan Gleason, Ph.D., assistant professor of botany; Alvin C. Kraenzlein, formerly of the University of Pennsylvania, assistant professor of physical training; Walter Mann Mitchell, Ph.D., assistant professor of astronomy; Carl Leonard DeMuralt, formerly of New York City, professor of electrical engineering.